Connecting via Winsock to STN

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LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 12	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 13	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 15	AUG 27	USPATOLD now available on STN
NEWS 16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18	SEP 13	FORIS renamed to SOFIS
NEWS 19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 20	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24	OCT 19	BEILSTEIN updated with new compounds

NEWS EXPRESS	19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:03:58 ON 22 OCT 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:04:10 ON 22 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2007 HIGHEST RN 951118-42-6
DICTIONARY FILE UPDATES: 19 OCT 2007 HIGHEST RN 951118-42-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

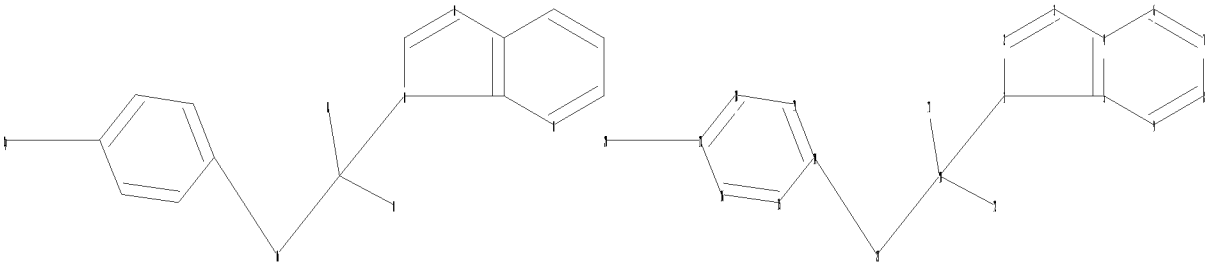
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10573274.str



chain nodes :
10 12 13 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 14 15 16 17 18 19
chain bonds :
1-10 10-13 10-12 10-21 14-21 17-20
ring bonds :
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 14-19 14-15 15-16 16-17 17-18 18-19

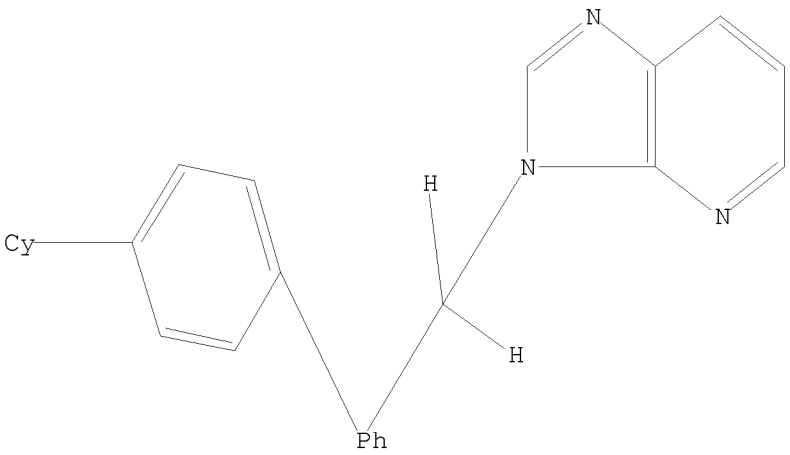
```
exact/norm bonds :
1-2  1-5  1-10  2-3  3-4  17-20
exact bonds :
10-13  10-12  10-21  14-21
normalized bonds :
4-5  4-6  5-9  6-7  7-8  8-9  14-19  14-15  15-16  16-17  17-18  18-19
isolated ring systems :
containing 1 : 14 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:CLASS
12:CLASS  13:CLASS  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom
21:CLASS



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```




```
Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 06:04:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED        0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO        0
PROJECTED ANSWERS:                0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 06:04:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        6 TO ITERATE
```

```
100.0% PROCESSED        6 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.10     172.31

Connection closed by remote host

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  JAN 02  STN pricing information for 2008 now available
 NEWS  3  JAN 16  CAS patent coverage enhanced to include exemplified
                  prophetic substances
 NEWS  4  JAN 28  USPATFULL, USPAT2, and USPATOLD enhanced with new
                  custom IPC display formats
 NEWS  5  JAN 28  MARPAT searching enhanced
 NEWS  6  JAN 28  USGENE now provides USPTO sequence data within 3 days
                  of publication
 NEWS  7  JAN 28  TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS  8  JAN 28  MEDLINE and LMEDLINE reloaded with enhancements
 NEWS  9  FEB 08  STN Express, Version 8.3, now available
 NEWS 10  FEB 20  PCI now available as a replacement to DPCI
 NEWS 11  FEB 25  IFIREF reloaded with enhancements
 NEWS 12  FEB 25  IMSPRODUCT reloaded with enhancements
 NEWS 13  FEB 29  WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                  U.S. National Patent Classification
 NEWS 14  MAR 31  IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                  IPC display formats
 NEWS 15  MAR 31  CAS REGISTRY enhanced with additional experimental
                  spectra
 NEWS 16  MAR 31  CA/CAplus and CASREACT patent number format for U.S.
                  applications updated
 NEWS 17  MAR 31  LPCI now available as a replacement to LDPCI
 NEWS 18  MAR 31  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19  APR 04  STN AnaVist, Version 1, to be discontinued
 NEWS 20  APR 15  WPIDS, WPINDEX, and WPIX enhanced with new
                  predefined hit display formats

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:01:34 ON 17 APR 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:01:42 ON 17 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10573274d.str

chain nodes :
6 7 8 9
ring nodes :
1 2 3 4 5
chain bonds :
3-6 4-8 5-7

```
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-2  1-5  2-3  3-4  3-6  4-5
exact bonds :
4-8  5-7


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  8:CLASS  9:CLASS



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
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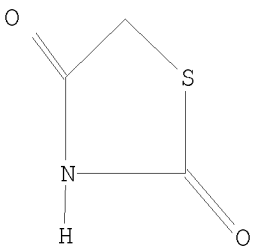


```
Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SEARCH INITIATED 10:02:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      380 TO ITERATE

100.0% PROCESSED      380 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         6431 TO     8769
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 10:02:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     7275 TO ITERATE

100.0% PROCESSED     7275 ITERATIONS                               10 ANSWERS
SEARCH TIME: 00.00.01

L3           10 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     178.36     178.57
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FILE 'CAPLUS' ENTERED AT 10:02:13 ON 17 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 17 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 16 Apr 2008 (20080416/ED)

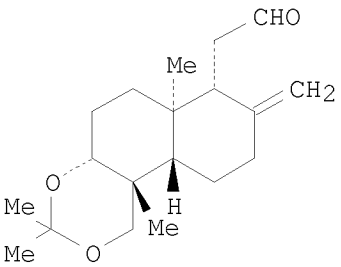
Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3 full
L4   5 L3

=> d ibib abs hitstr tot

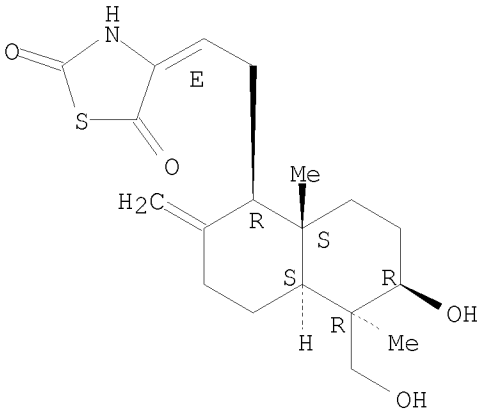
L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:445135 CAPLUS
DOCUMENT NUMBER: 141:140629
TITLE: Novel routes for the generation of structurally diverse labdane diterpenes from andrographolide
AUTHOR(S): Nanduri, Srinivas; Nyavanandi, Vijay Kumar; Thunuguntla, Siva Sanjeeva Rao; Velisoju, Mahendar; Kasu, Sridevi; Rajagopal, Sriram; Kumar, R. Ajaya; Rajagopalan, R.; Iqbal, Javed
CORPORATE SOURCE: Discovery Chemistry, Discovery Research, Dr. Reddy's Laboratories Ltd., Miyapur, Hyderabad, 500 049, India
SOURCE: Tetrahedron Letters (2004), 45(25), 4883-4886
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:140629
GI



I

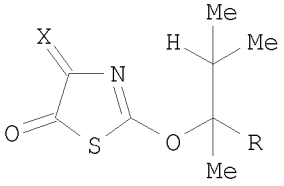
AB Andrographolide, the major constituent of the Indian medicinal plant Andrographis paniculata (Acanthaceae) was converted into the key intermediate I by selective oxidative degradation of the C-12,13 olefin bond. The aldehyde functional group present in I has been utilized for synthesizing a number of structurally diverse labdane diterpenes. Synthesis and in vitro cytotoxic activity results of the compds. prepared are discussed.
IT 727723-08-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and anticancer activity of labdane diterpenes)
RN 727723-08-2 CAPLUS
CN 2,5-Thiazolidinedione, 4-[2-[(1R,4aS,5R,6R,8aS)-decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1-naphthalenyl]ethylidene]-, (4E)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

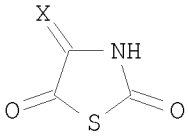


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:322523 CAPLUS
DOCUMENT NUMBER: 125:58379
TITLE: Gas-phase elimination reactions of 4-substituted 2-alkoxythiazoline-5-ones
AUTHOR(S): Al-Awadi, Nouria; Elnagdi, Mohamed H.
CORPORATE SOURCE: Chem. Dep., Kuwait Univ., Safat, 13060, Kuwait
SOURCE: Heteroatom Chemistry (1996), 7(3), 183-186
CODEN: HETCE8; ISSN: 1042-7163
PUBLISHER: Wiley
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

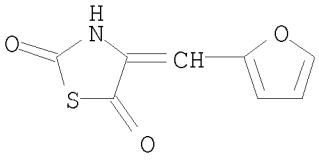


I

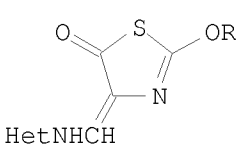


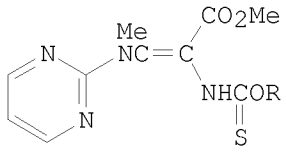
II

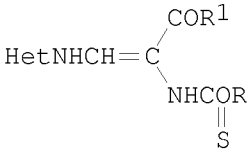
AB Gas-phase elimination of 4-substituted 2-alkoxythiazoline-5-ones I (R = H, Me, X = PhNHN, 2-furylmethylene) have been studied. These compds. eliminate via a six-membered transition state to produce 4-substituted thiazolidine-2,5-diones II. These eliminations are unimol. first-order reactions. Utilization of this thermolysis reaction in the synthesis of new 4-substituted thiazolidine-2,5-diones is considered. Addnl. mechanistic information was obtained by comparing the kinetic data for thermal elimination reactions of these compds. with that of 1-ethoxythiazole.
IT 178321-12-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(kinetics of elimination of alkoxythiazolinones to thiazolidinediones)
RN 178321-12-5 CAPLUS
CN 2,5-Thiazolidinedione, 4-(2-furanylmethylene)- (CA INDEX NAME)

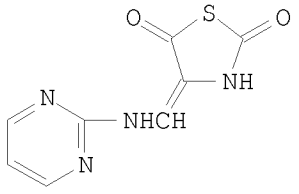


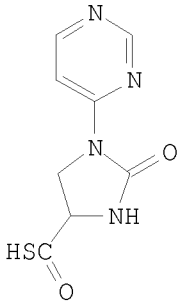
L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:558118 CAPLUS
DOCUMENT NUMBER: 121:158118
TITLE: The synthesis of β-heteroarylamino-α,β-dehydro-α-amino acid derivatives via thiazolones
AUTHOR(S): Smodis, Janez; Stanovnik, Branko; Tisler, Miha
CORPORATE SOURCE: Dep. Chem., Univ. Ljubljana, Ljubljana, 61000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (1994), 31(1), 199-203
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:158118
GI


I

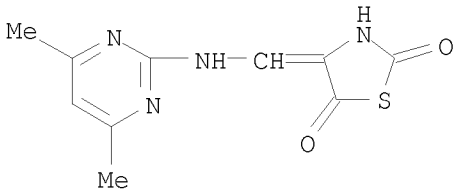

II


III


IV


V

AB 2-Alkoxy-4-heteroarylaminomethylene-5(4H)-thiazolones I (Het = 4,6-dimethyl-2-pyrimidyl; R = Me, Ch2Ph, Et; Het = 4-methyl-2-pyrimidyl, R = Me) were converted with various nucleophiles into β-heteroarylamino-α,β-dehydro α-amino acid derivs. II (R = Me, CH2Ph), III (Het = 4,6-dimethyl-2-pyrimidyl; R = Me, Ch2Ph, Et, R1 = OMe; Het = 4-methyl-2-pyrimidyl, R = Me, R1 = OMe; Het = 4,6-dimethyl-2-pyrimidyl; R = Me, Ch2Ph, R1 = NH2; Het = 4-methyl-2-pyrimidyl, R = Me, R1 = NH2; Het = 4,6-dimethyl-2-pyrimidyl, R = Me, R1 = NMe2; Het = 4,6-dimethyl-2-pyrimidyl, R = CH2Ph; R1 = NHNH2), and peptide derivative III (Het = 4,6-dimethyl-2-pyrimidyl; R = Me, R1 = NHCH2CO2H). Reduction of I with sodium borohydride in EtOH saturated with gaseous ammonia afforded the corresponding β-heteroarylamino substituted alanyl amides HetNHCH2CH(CONH2)NHC(S)OR. Thiazoledione derivative IV was transformed with sodium methoxide in methanol into imidazol-2(3H)-one V.
IT 157423-82-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of, to imidazole derivative)
RN 157423-82-0 CAPLUS
CN 2,5-Thiazolidinedione, 4-[[(4,6-dimethyl-2-pyrimidinyl)amino]methylene]- (CA INDEX NAME)


Me
N
NH
CH
H
N
O
S
O
N
Me

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:137436 CAPLUS
DOCUMENT NUMBER: 55:137436
ORIGINAL REFERENCE NO.: 55:25919g-i,25920a-h
TITLE: Action of Grignard reagents. XXII. Action of organo-magnesium compounds on 2-thioxo-4-arylidene-5-thiazolidones and on 4-arylidene-2,5-thiazolidinediones. Reaction of 2-thioxo-4-benzylidene-5-thiazolidone with diazomethane
AUTHOR(S): Mustafa, Ahmed; Sallam, Mohamed Mohamed
CORPORATE SOURCE: Cairo Univ., Giza, Egypt
SOURCE: Journal of Organic Chemistry (1961), 26, 1782-6
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB Treatment of 2-thioxo-4-arylidene-5-thiazolidones with organomagnesium compds. did not effect the opening of the heterocyclic N ring, but only addition to the conjugation created by attachment of an exocyclic double bond in the 4-position took place to give colorless products, believed to have the general structure ArCHRCH.CO.S.CS.NH. 2-Thioxo-4-diphenylmethyl-5-thiazolidone (I) was also obtained by the addition of C6H6 to the exocyclic double bond in 2-thioxo-4-benzylidene-5-thiazolidone (II) in the presence of anhydrous AlCl3. Hydrolysis of the Grignard products, ArCHRCH.CO.S.CS.NH, exemplified by I and PhCHEtCH.CO.S.CS.NH (III), with aqueous 10% NaOH established a new route for the preparation of β,β-disubstituted alanines, namely, β,β-diphenyl- (IV) and β-phenyl-β-ethylalanine (V). Similarly, addition of organomagnesium compds. to the exocyclic double bond in the newly prepared 4-arylidene-2,5-thiazolidinediones took place with formation of colorless products, believed to have structures ArRCHCH.CO.S.CO.NH. Hydrolysis of 4-(α-phenylpropyl)-2,5-thiazolidinedione (VI) with aqueous NaOH gave IV. The action of ethereal CH2N2 on II led to the formation of 2-methylthio-4-benzylidene-5-thiazolidone (VII) in good yield. Na (4.9 g.) in 120 ml. alc. added during 2 hrs. to 26 g. aminoacetonitrile sulfate in 150 ml. Me2CO, 17 ml. CS2 and then 200 ml. Et2O added to the filtrate, the 18 g. of solid obtained dissolved in H2O, and this solution added to 300 ml. Me2CO gave 14.4 g. carbamoylmethylammonium carbamoyldithiocarbamate (VIII), m. 138-9° (decomposition). VIII (1 g.) in 6 ml. H2O treated with 0.5 g. p-tolualdehyde in 3 ml. alc. and the mixture treated dropwise with 3 ml. HCl gave 0.15 g. 2-thioxo-4-(p-methylbenzylidene)-5-thiazolidone, yellow needles, m. 220-1° (C6H6). A Grignard solution (from 0.9 g. Mg and 9 g. PhBr in 50 ml. Et2O) added to 1.5 g. of each member of a series of 2-thioxo-4-arylidene-5-thiazolidones (arylidene group = PhCH:, p-MeOC6H4CH:, p-MeC6H4CH:, : CHC6H3O2CH2-3,4) in 50 ml. C6H6, the Et2O evaporated, the mixture heated 1 hr., kept 3 hrs. at room temperature, poured onto 100 ml. saturated NH4Cl containing 3 ml. HCl, extracted with C6H6, and the solvent evaporated gave solid residues, which were crystallized The Grignard products, ArCHRCH.CO.S.CS.NH, were similarly prepared, colorless, soluble in cold 10% NaOH, no color with alc. FeCl3, generally soluble in hot C6H6, and difficultly soluble in ligroine (Ar and R or compound number, solvent of crystallization, m.p., % yield, and color with H2SO4 given): I, alc., 199-200°, 76, yellow; Ph, p-tolyl, alc., 173°, 88, yellow; Ph, Me, C6H6, 170°, 82, no color; III, C6H6-ligroine, 157-8°, 79, no color; Ph, iso-Pr, C6H6, 214°, 76, no color; p-MeOC6H4, Ph, alc., 139°, 74, yellow; p-MeOC6H4, p-tolyl, C6H6, 149°, 70, orange; p-MeOC6H4, Me, C6H6-ligroine, 175°, 72, no color; p-MeOC6H4, Et, C6H6, 167°, 78, no color; p-MeOC6H4, Ph, alc., 173°, 68, yellow; C6H3O2-CH2-3,4, Ph, C6H6, 212°, 71, red;

C6H3O2CH2-3,4, p-tolyl, C6H6, 195°, 73, red; C6H3O2CH2-3,4, Me, C6H6, 184°, 72, yellow. I (1 g.) and 10 ml. aqueous NaOH refluxed 15 min., the mixture cooled, poured on ice, and acidified gave 0.55 g. IV, m. 234-5° (decomposition); HCl salt m. 227° (decomposition). IV (0.5 g.) in 5 ml. aqueous 10% NaOH treated 15 min. with 0.4 ml. BzCl, poured on ice, acidified, the solid triturated with 3 ml. hot CCl4, and crystallized gave 0.35 g. Bz derivative (IX), m. 190-1° (dilute alc.). IX (0.5 g.) and 0.3 g. fused NaOAc heated 0.5 hr. with 0.5 ml. Ac2O gave 0.15 g. 2-phenyl-4-diphenylmethyl-5(4H)-oxazolone, m. 158° (C6H6-ligroine). III (1 g.) similarly treated with NaOH gave 0.6 g. V, m. 222-3° (decomposition). Benzoylation of V gave 0.3 g. Bz derivative, m. 193°. II (6 g.) in 200 ml. C6H6 added at 10-20° to 9.5 g. AlCl3 and 125 ml. C6H6, the mixture stirred 3 hrs. at room temperature, the complex decomposed with dilute HCl, extracted with C6H6, and crystallized gave 4.1 g. I. 2,5-Thiazolidinedione (5 g.), 5 ml. BzH, and 20 ml. AcOH refluxed 0.5 hr. with 3 g. fused NaOAc gave 3.2 g. 4-benzylidene-2,5-thiazolidinedione (X), m. 165° (alc.). Similarly, refluxing 5 g. 2,5-thiazolidinedione, 5 ml. p-methoxybenzaldehyde, 20 ml. AcOH, and 3 g. fused NaOAc 0.5 hr. gave 2.9 g. 4-(p-methoxybenzylidene)-2,5-thiazolidinedione (XI), m. 168° (alc.). Grignard reagents treated with X and XI gave VI and related compds. The following results were obtained (starting material, Grignard product Ar and R or compound number, solvent, m.p., % yield, and color with H2SO4 given): X, VI, C6H6, 136°, 82, yellow; X, Ph, p-MeOC6H4, alc., 145°, 70, orange; X, Ph, Me, alc., 159°, 81, no color; XI, p-MeOC6H4, Me, alc., 149°, 73, no color. VI (1 g.) in 10 ml. 10% NaOH gave 0.45 g. IV. II (1 g.) in 50 ml. Et2O kept overnight at 0° with CH2N2 gave 0.8 g. VII, m. 101° (ligroine).

IT 103038-18-2P, 2,5-Thiazolidinedione, 4-benzylidene-
103853-89-0P, 2,5-Thiazolidinedione, 4-p-methoxybenzylidene-
RL: PREP (Preparation)
(preparation of)

RN 103038-18-2 CAPLUS
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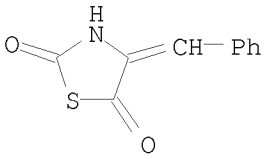

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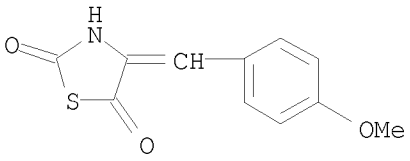

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1952:14468 CAPLUS
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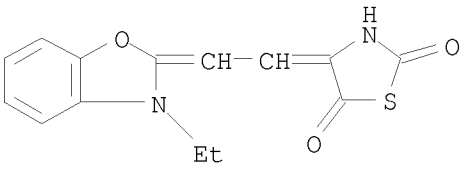
ORIGINAL REFERENCE NO.: 46:2524e-h
TITLE: 2,5-Thiazolidinedione
AUTHOR(S): Aubert, Per; Jeffreys, R. A.; Knott, E. B.
CORPORATE SOURCE: Kodak Ltd., Wealdstone, UK
SOURCE: Journal of the Chemical Society (1951) 2195-7
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 46:14468
GI For diagram(s), see printed CA Issue.
AB HO2CCH2NHCSOEt (5 g.) in 15 cc. C6H6, treated with PCl3 and gently warmed to about 40°, gives 75% 2,5-thiazolidinedione (I), m. 110°; the yield is the same with 2.2 or 0.33 mol. PCl3 or with PBr3; the yields are lower in C6H6-dioxane. CO.CH2.N:C(OEt).S (5 g.) in 15 cc. C6H6, treated with 3 cc. PBr3, gives 2.9 g. I. 2,2'-Acetanilidovinylbenzoxazole-EtI (2.2 g.) in 150 cc. EtOH, treated at 30° with 0.5 cc. Et3N and 0.6 g. I, and kept 2 days, gives [2-(3-ethylbenzoxazole)][4-(2,5-thiazolidinedione)]dimethinemerocyanine (II), orange, m. 248°; if the components in 10 cc. EtOH are boiled 15 min., the yellow solution becomes deep crimson and gives a sepia dye, m. 257°, which is II plus 1 mol. EtOH. I (1 g.) in 15 cc. H2O, heated 1 min. on the steam bath, give a polyglycine, amorphous, darkens about 300°. MeCH(NH2)CO2H (20.8 g.) and 12.1 g. KOH in 40 cc. H2O, treated with 35 g. EtOCS2Et in 40 cc. EtOH and heated 24 hrs. on the steam bath, give 21 g. N-thionocarbethoxy-DL-alanine, m. 103.5°; sarcosine (5 g.) gives 9.5 g. N-thionocarbethoxysarcosine, m. 86°; these compds. on cyclodealkylation give oils.
IT 854163-58-9P, 2,5-Thiazolidinedione, 4-[2-(3-ethyl-2-benzoxazolinylidene)ethylidene]- 854163-59-0P, Benzoxazole, 2-[2-(2,5-dioxo-4-thiazolidinylidene)ethylidene]-3-ethyl-, compound with EtOH
RL: PREP (Preparation)
(preparation of)
RN 854163-58-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 854163-59-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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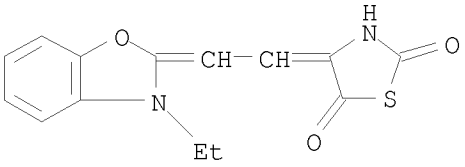

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     FILE 'CAPLUS' ENTERED AT 10:02:13 ON 17 APR 2008
L4           5 S L3 FULL

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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